

OIL ANALYSIS REPORT

Sample Rating Trend



Area [21775] 40-96 Component Diesel Engine Fluid CONDOCO PHILLIPS CLIABDOL ECT 15W

CONOCO PHILLIPS GUARDOL ECT 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. (Customer Sample Comment: This sample is from a used engine that is replacing the original engine. Have no information about used engine just that has high hours)

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

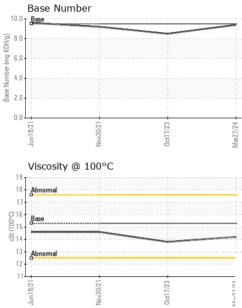
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

(GAL)		Jun202	1 Nov2021	0ct2023	1ar2024			
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0923352	WC0818732	WC0601385		
Sample Date		Client Info		27 Mar 2024	17 Oct 2023	30 Nov 2021		
Machine Age	hrs	Client Info		7914	7884	6645		
Oil Age	hrs	Client Info		30	265	282		
Oil Changed		Client Info		Changed	Changed	Changed		
Sample Status				NORMAL	NORMAL	NORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2		
⁻ uel		WC Method	>5	<1.0	<1.0	<1.0		
Nater		WC Method	>0.2	NEG	NEG	NEG		
Glycol		WC Method		NEG	NEG	NEG		
WEAR METALS		method	limit/base	current	history1	history2		
ron	ppm	ASTM D5185m	>100	4	17	16		
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1		
Nickel	ppm	ASTM D5185m	>4	0	<1	<1		
Titanium	ppm	ASTM D5185m		<1	<1	<1		
Silver	ppm	ASTM D5185m	>3	0	0	<1		
Aluminum	ppm	ASTM D5185m	>20	2	2	2		
ead	ppm	ASTM D5185m	>40	<1	0	<1		
Copper	ppm	ASTM D5185m	>330	<1	1	1		
Fin	ppm	ASTM D5185m	>15	<1	0	<1		
Antimony	ppm	ASTM D5185m				0		
/anadium	ppm	ASTM D5185m		0	0	<1		
Cadmium	ppm	ASTM D5185m		<1	<1	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m	85	139	44	48		
Barium	ppm	ASTM D5185m		0	3	0		
Nolybdenum	ppm	ASTM D5185m		62	3	2		
Manganese	ppm	ASTM D5185m		<1	<1	<1		
Magnesium	ppm	ASTM D5185m	350	422	700	790		
Calcium	ppm	ASTM D5185m	1800	1690	1315	1497		
Phosphorus	ppm	ASTM D5185m	1000	913	1125	1184		
Zinc	ppm	ASTM D5185m	1100	1181	1223	1296		
Sulfur	ppm	ASTM D5185m	3500	3439	4268	3631		
CONTAMINANTS	6	method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>25	6	6	4		
Sodium	ppm	ASTM D5185m		18	3	3		
Potassium	ppm	ASTM D5185m	>20	22	4	4		
INFRA-RED		method	limit/base	current	history1	history2		
Soot %	%	*ASTM D7844	>3	0.1	0.7	0.2		
Nitration	Abs/cm	*ASTM D7624	>20	4.4	9.9	6.6		
Sulfation	Abs/.1mm	*ASTM D7415	>30	18.3	21.4	19.4		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2		
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.9	14.9	14.9		
Base Number (BN)	mg KOH/g	ASTM D2896	9.5	9.4	8.5	9.2		
51:40) Rev: 1				Submitted By: JAMES STEELMON				

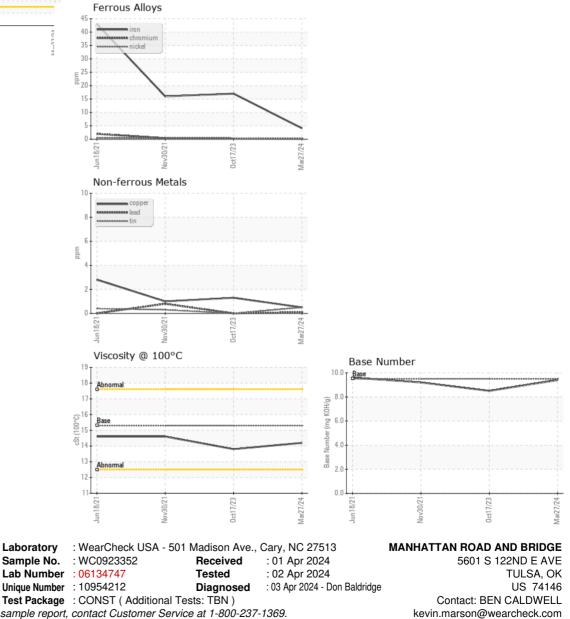
Submitted By: JAMES STEELMON



OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	ΓIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.3	14.2	13.8	14.6
GRAPHS						





Test Package : CONST (Additional Tests: TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (918)728-5749 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: